

Title (en)

Thermosetting resin composition and thermosetting dry film.

Title (de)

Warmhärtende Harzzusammensetzung und warmhärtender trockener Film.

Title (fr)

Composition de résine thermodurcissable et film sec thermodurcissable.

Publication

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Application

EP 90107371 A 19900418

Priority

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Abstract (en)

A thermosetting resin composition, a solution composition of the resin and a thermosetting dry film formed out of the resin are disclosed. The thermosetting resin composition contains a specific resin component as the main component. The resin component consists of (A) 100 weight parts of an aromatic polyimide; and (B) 5 to 2,000 weight parts of (a) a terminal-modified imide oligomer or (b) an unsaturated imide compound. The aromatic polyimide (A) is formed from a tetracarboxylic acid ingredient which contains 2,3,3 min ,4 min -biphenyltetracarboxylic acid or its derivative in an amount of at least 60 mole % and an aromatic diamine ingredient. The polyimide has such a high molecular weight that the logarithmic viscosity (concentration: 0.5 g/100 ml of solvent; solvent: N-methyl-2-pyrrolidone; and temperature of measurement: 30 DEG C) is not less than 0.2. The polyimide is soluble in an organic polar solvent. The imide oligomer (a) has an internal imide bond inside of the oligomer and an unsaturated group as a terminal group, and is formed by a reaction of an aromatic tetracarboxylic acid ingredient, a diamine ingredient, and an unsaturated monoamine or dicarboxylic acid ingredient having an unsaturated group. The oligomer has a logarithmic viscosity of not more than 0.5 and a softening point of not higher than 300 DEG C. The imide compound (b) has an internal imide bond inside of the compound and an unsaturated group as a terminal group, and is formed by a reaction of an aromatic tetracarboxylic acid ingredient with a monoamine ingredient having an unsaturated group. The compound has a softening point of not higher than 300 DEG C.

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